ViewSonic®

VNB109
NoteBook

- **User Guide**

- **Руководство пользователя**

- 使用手册（简体）

ViewSonic®

Model No. : VS13756

Important Safety Instructions

1. DO NOT press or touch the LCD Screen. DO NOT place the Notebook PC with small items, they may scratch LCD Screen or enter the Notebook PC.
2. DO NOT expose the Notebook PC to dirty or dusty environment. Keep the environment clean and dry.
3. DO NOT place the Notebook PC on uneven or unstable work surface.
4. DO NOT place or drop objects on the top of the Notebook PC. DO NOT shove any foreign objects into the Notebook PC. DO NOT cover the LCD Screen strongly.
5. DO NOT expose the Notebook PC to strong magnetic or electrical fields; DO NOT place the floppy disk near or on the Notebook PC, that may loss the data of the floppy disk.
6. DO NOT leave the Notebook PC facing the sun as it can damage the LCD Screen, especially in the car.
7. SAFE TEMP: This Notebook PC should only be used in environments with ambient temperatures between 5° C (41° F) and 35° C(95° F).
8. DO NOT expose the Notebook PC to or use near liquids, rain, or moisture.
9. Caution: risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
10. DO NOT throw the Notebook PC in municipal waste. Check local regulations for disposal of electronic products. Please recycle the Battery Pack, and check with your Local Authority or retailer for recycling advice.

11. The Notebook PC and the Adapter may occur some heat during operating or charging. DO NOT leave the Notebook PC on your lap or any part of the body in order to prevent discomfort or injury from heat exposure.
12. INPUT RATING: Refer to the rating label on the Notebook PC and be sure that the by the manufacturer.
13. Checking the connections between the main unit and attachments before turning on the Notebook PC.
14. DO NOT use the Notebook PC during eating food avoid dirtying the Notebook PC.
15. DO NOT insert anything into the Notebook PC that may result in short circuit or damage the circuit.
16. Powering off the Notebook PC, if you want install or remove some external devices, which are not support hot-plug.
17. Disconnect the Notebook PC from the electrical outlet and remove any installed batteries before cleaning. And Keep it away from children.
18. DO NOT disassemble the Notebook PC, only a certified service technician should perform repairs on your computer. Otherwise, problem may result and the manufacturer should not hold responsibility for the damage.
19. Only use Battery Packs approved by the manufacturer or else damage may occur.
20. The Notebook PC has some little metal flake to disperse heat. DO NOT place the Notebook PC on soft objects (e.g.: bed, sofa, your lap), or else the Notebook PC may become hot and halt the system operating.

Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr^{6+})	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.

2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).

3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).

4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

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Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: **www.viewsonic.com**. The ViewSonic Wizard CD-ROM also provides an opportunity for you to print the registration form, which you may mail or fax to ViewSonic.

For Your Records

Product Name:	VNB109
	ViewSonic NoteBook
Model Number:	VS13756
Document Number:	VNB109_UG_ENG Rev. 1B 10-20-10
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. For the recycling information, please refer to our website:

USA & Canada: http://www.viewsonic.com/company/green/recycle-program/
Europe: http://www.viewsoniceurope.com/uk/support/recycling-information/
Taiwan: http://recycle.epa.gov.tw/recycle/index2.aspx

About this Quick Guide

This quick guide is a brief introduction to getting your system started. This is a supplement, and not a substitute for the expanded English language *User's Manual* in *Adobe Acrobat* format on the *Device Drivers & Utilities + User's Manual* disc supplied with your computer. This disc also contains the drivers and utilities necessary for the proper operation of the computer (**Note**: The company reserves the right to revise this publication or to change its contents without notice).

Some or all of the computer's features may already have been setup. If they aren't, or you are planning to re-configure (or re-install) portions of the system, refer to the expanded *User's Manual*. The *Device Drivers & Utilities + User's Manual* disc does not contain an operating system.

System Startup

1. Remove all packing materials.
2. Place the computer on a stable surface.
3. Securely attach any peripherals you want to use with the computer (e.g. keyboard and mouse) to their ports.
4. Attach the AC/DC adapter to the DC-In jack on the left of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter.
5. Use one hand to raise the lid/LCD to a comfortable viewing angle (do not exceed 120 degrees); use the other hand (as illustrated in *Figure1*) to support the base of the computer (**Note**: **Never** lift the computer by the lid/LCD).
6. Press the power button to turn the computer "on".
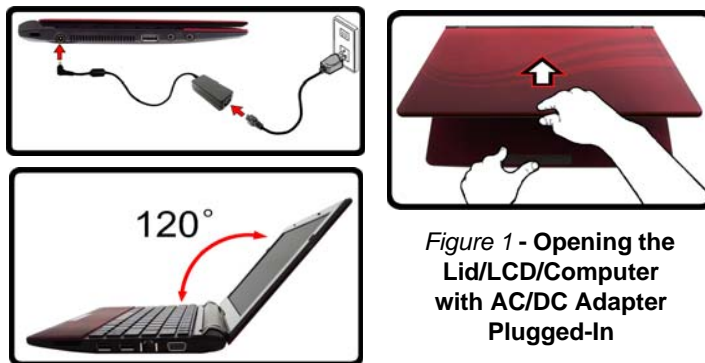
Figure 1 **- Opening the Lid/LCD/Computer with AC/DC Adapter Plugged-In**

System Software

Your computer may already come with system software pre-installed. Where this is not the case, or where you are re-configuring your computer for a different system, you will find this manual refers to *Microsoft Windows 7*.

System Map: Front View with LCD Panel Open

Figure 2 - **Front View with LCD Panel Open**

1. Built-In PC Camera
2. LCD
3. Keyboard
4. Built-In Microphone
5. Touchpad & Buttons
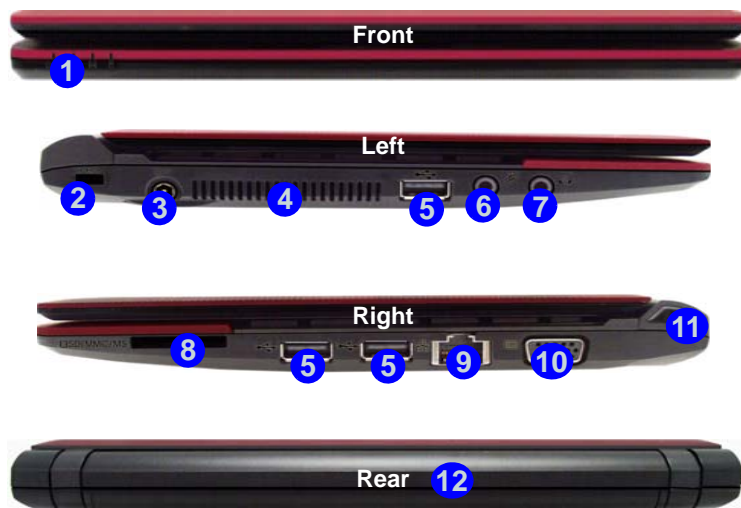6. LED Indicators

LED Indicators

The LED indicators on the computer display helpful information about the current status of the computer.

Icon	Color	Description
6		
⏻	Orange	DC Power is Plugged In
	Green	The Computer is On
	Blinking Green	The Computer is in Sleep Mode
🔋	Orange	The Battery is Charging
	Green	The Battery is Fully Charged
	Blinking Orange	The Battery Has Reached Critically Low Power Status
🛢	Green	Hard Disk Activity
📶	Green	The Wireless LAN Module is Powered On
	Orange	The Bluetooth Module is Powered On

Table 1 - **LED Indicators**

System Map: Front, Left, Right, & Rear Views

Front

1

Left

2   3   4   5   6   7

Right

8   5   5   9   10   11

Rear   12

Figure 3 **- Front, Left, Right & Rear Views**

1. LED Indicators
2. Security Lock Slot
3. DC-In Jack
4. Vent
5. 3 * USB 2.0 Ports
6. Microphone-In Jack

7. Headphone-Out Jack
8. 3-in-1 Card Reader
9. RJ-45 LAN Jack
10. External Monitor Port
11. Power Button
12. Battery

☼

Overheating

To prevent your computer from overheating make sure nothing
blocks any vent while the computer is in use.

System Map: Bottom View

1. Battery
2. Component Bay Cover
3. Vent
4. Speakers

Figure 4
Bottom View

1. Battery
2. Component Bay Cover
3. Vent
4. Speakers

Overheating

To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.

CPU

The CPU is not a user serviceable part. Opening this compartment, or accessing the CPU in any way, may violate your warranty.

Battery Information

Always completely discharge, then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges (see the expanded *User's Manual* on the *Device Drivers & Utilities + User's Manual* disc).

Keyboard & Function Keys

The keyboard has a numeric keypad for easy numeric data input. Pressing the **Fn** + **NumLk** keys turns on/off the numeric keypad. It also features function keys to allow you to change operational features instantly. The function keys (**F1** - **F12** etc.) will act as hot keys when pressed while the **Fn** key is held down. In addition to the basic function key combinations, visual indicators are available when the hot key driver is installed.
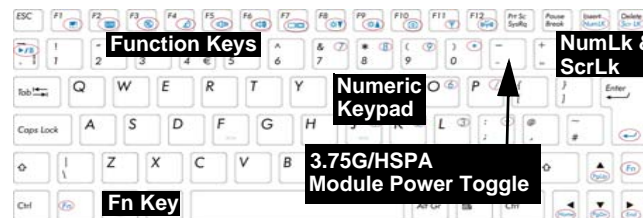
Figure 5 **- Keyboard**

Keys	Function/Visual Indicators		Keys	Function/Visual Indicators	
Fn + ~	Play/Pause (in Audio/Video Programs)		Fn + F8/F9	Brightness Decrease/Increase	
Fn + F1	Touchpad Toggle		Fn + F10	PC Camera Power Toggle	
Fn + F2	Turn LCD Backlight Off (Press a key to or use Touchpad to turn on)		Fn + F11	WLAN Module Power Toggle	
Fn + F3	Mute Toggle		Fn + F12	Bluetooth Module Power Toggle	
Fn + F4	Sleep Toggle		Fn + NumLk	Numeric Keypad Toggle	
Fn + F5/F6	Volume Decrease/ Increase		Fn + ScrLk	Scroll Lock Toggle	
Fn + F7	Display Toggle		Caps Lock	Caps Lock Toggle	
Table 2 **- Function Keys & Visual Indicators**					

Driver Installation

The *Device Drivers & Utilities + User's Manual* disc contains the drivers and utilities necessary for the proper operation of the computer. This setup will probably have already been done for you. If this is not the case, insert the disc and click **Install Drivers** (button), or **Option Drivers** (button) to access the **Optional** driver menu. Install the drivers **in the order indicated** in *Figure6*. Click to select the drivers you wish to install (you should note down the drivers as you install them). **Note**: If you need to reinstall any driver, you should uninstall the driver first.

If the **Found New Hardware** wizard appears during the installation procedure, click **Cancel** to close the window, and follow the installation procedure as directed.
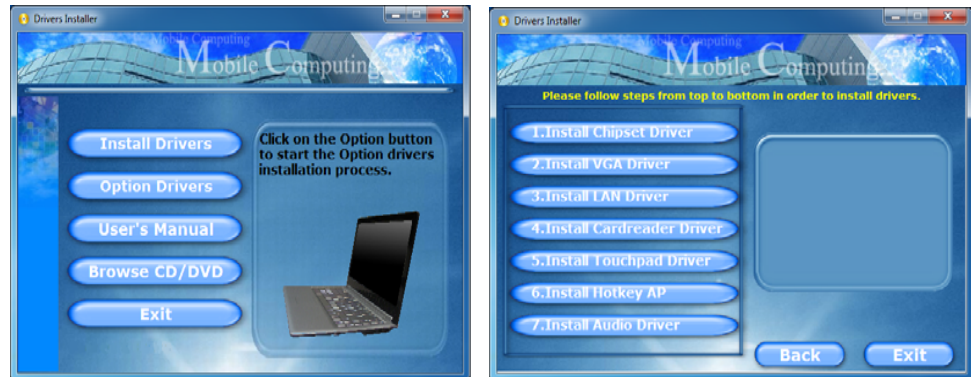

Figure 6 - **Install Drivers**

Troubleshooting

Problem	Possible Cause - Solution
The **Wireless LAN indicators** 🌀 🌀 show that the WLAN module is powered on, however the module does not connect.	*The WLAN module is turned off in the Windows Mobility Center.* The computer's wireless function keys will not function properly if **Wireless** is turned **OFF** in the **Windows Mobility Center** control panel. Make sure that Wireless is **ON** in the **Windows Mobility Center** to ensure proper function key behavior.
The **Bluetooth** module is **off** after resuming from Sleep.	*The Bluetooth module's default state will be off after resuming from the Sleep power-saving state.* Use the key combination (**Fn + F12**) to power on the Bluetooth module after the computer resumes from Sleep.
The captured video files from the **PC Camera** are taking up too much disk space.	Note that capturing high resolution video files requires a substantial amount of disk space for each file. Note that the ***Windows*** system requires a minimum of **15GB** of free space on the **C: drive** system partition. It is recommended that you save the capture video file to a location other than the **C:drive**, limit the file size of the captured video or reduce video resolution (**Options** > **Video Capture Pin...** > **Output Size**).

Specifications

Processor

Intel® Atom™ Processor N455

1.66 GHz, 512KB L2 Cache, 667MHz FSB, TDP:5.5W

Display

10.1" (25,6cm) WSVGA TFT LCD

Core Logic

Intel® NM10 Express Chipset

Memory

One 200 Pin SO-DIMM Socket Supporting **DDR2 667MHz** Memory

Memory Expandable up to **2GB**

Video Adapter

Intel GMA 3150
Shared Memory Architecture (DVMT) up to **384MB**
MS DirectX® 9.0 compatible

Storage

One Changeable 2.5" 9.5mm (h) SATA Hard Disk Drive

BIOS

One 8Mb SPI Flash ROM
Phoenix™ BIOS

Audio

High Definition Audio Compliant Interface
2 * Built-In Speakers
Built-In Microphone

Security

Kensington Lock Slot
BIOS Password

Interface

Three USB 2.0 Ports
One Headphone-Out Jack
One Microphone-In Jack
One External Monitor Port
One RJ-45 LAN Jack
One DC-in Jack

Keyboard

"WinKey" keyboard (with embedded numeric keypad)

Pointing Device

Built-in Touchpad

Communication

10Mb/100Mb Ethernet LAN

300K Pixel USB PC Camera Module

(**Factory Option**) Bluetooth 2.1 + EDR Module

802.11b/g/n Wireless LAN Half Mini-Card Module

Card Reader

Embedded 3-in-1 Card Reader
>   MMC (MultiMedia Card) / RS MMC
>   SD (Secure Digital) / Mini SD / SDHC/ SDXC
>   MS (Memory Stick) / MS pro / MS Duo

Power

Full Range AC/DC Adapter

AC Input: 100 - 240V, 50 - 60Hz

DC Output: 19V, 1.57A/ 1.58A (**30W**)

Removable 3 Cell Smart Lithium-Ion Battery Pack, 24.42WH

Environmental Spec

Temperature
Operating: 5°C - 35°C
Non-Operating: -20°C - 60°C

Relative Humidity
Operating: 20% - 80%
Non-Operating: 10% - 90%

Dimensions & Weight

266mm (w) x 185mm (d) x 19.7 - 27.1mm (h)

0.93kg (with 24.42WH Battery)

Customer Support

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product serial number.

Country/Region	Website	T = Telephone F = FAX	Email
Australia/New Zealand	www.viewsonic.com.au	AUS= 1800 880 818 NZ= 0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-3757	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/Support/Calldesk.htm	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 11 9999	service@in.viewsonic.com
Ireland (Eire)	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/support/call-desk/	service_ie@viewsoniceurope.com
Korea	www.kr.viewsonic.com	T= 080 333 2131	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	T= 0800-4441185	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	T= 1230-020-7975	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	T= 01800-9-157235	soporte@viewsonic.com

Country/Region	Website	T = Telephone F = FAX	Email
Latin America (Mexico)	www.viewsonic.com/la/	T= 001-8882328722	soporte@viewsonic.com
Renta y Datos, 29 SUR 721, COL. LA PAZ, 72160 PUEBLA, PUE. Tel: 01.222.891.55.77 CON 10 LINEAS Electroser, Av Reforma No. 403Gx39 y 41, 97000 Mérida, Yucatán. Tel: 01.999.925.19.16 Other places please refer to http://www.viewsonic.com/la/soporte/index.htm#Mexico			
Latin America (Peru)	www.viewsonic.com/la/	T= 0800-54565	soporte@viewsonic.com
Macau	www.hk.viewsonic.com	T= 853 2870 0303	service@hk.viewsonic.com
Middle East	ap.viewsonic.com/me/	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish) F= 1-909-468-3757	service.us@viewsonic.com soporte@viewsonic.com
Singapore/Malaysia/Thailand	www.viewsonic.com.sg	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	ap.viewsonic.com/za/	Contact your reseller	service@ap.viewsonic.com
United Kingdom	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/support/call-desk/	service_gb@viewsoniceurope.com
United States	www.viewsonic.com	T (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530 F= 1-909-468-3757	service.us@viewsonic.com

Limited Warranty

VIEWSONIC® NOTEBOOK

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The replacement unit will be covered by the balance of the time remaining on the customerís original limited warranty. ViewSonic provides no warranty for the third-party software included with the product or installed by the customer.

How long the warranty is effective:

ViewSonic NoteBook products are warranted for (1) year from the first consumer purchase for parts and labor.
User is responsible for the back up of any data before returning the unit for service. ViewSonic is not responsible for any data lost.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:

a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.

a. Any damage of the product due to shipment.

a. Removal or installation of the product.

a. Causes external to the product, such as electrical power fluctuations or failure.

a. Use of supplies or parts not meeting ViewSonicís specifications.

a. Normal wear and tear.

a. Any other cause which does not relate to a product defect.

3. Any product exhibiting a condition commonly known as ìimage burn-inî which results when a static image is displayed on the product for an extended period of time.

4. Removal, installation, one way transportation, insurance, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to Customer Support page). You will need to provide your productís serial number.

2. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.

3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.

4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonicís liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.

2. Any other damages, whether incidental, consequential or otherwise.

3. Any claim against the customer by any other party.

4. Repair or attempted repair by anyone not authorized by ViewSonic.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.
The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.
For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope.com under Support/Warranty Information.

4.3: ViewSonic NoteBook Warranty   NB_LW01 Rev. 1a 02-11-09